BlackBerry Z10 Smartphone
STL100-1

PRINTSPEC-128
SWD-20121109122456097 | RFG81UW

Safety and Product Information

MAT-51067-001

Safety information

Excited to start using your BlackBerry device? Before you get started, read this booklet which contains important safety and regulatory information for your BlackBerry device. Keep this booklet in a safe place so that you can refer to it whenever you need it.

In some countries there may be restrictions on using Bluetooth enabled devices and wireless devices with encryption software. Check with your local authorities for the restrictions in your area.

To find the latest safety and product information, visit www.blackberry.com/docs/smartphones.

Important safety precautions

	Use only approved batteries and chargers with your BlackBerry device. Use of batteries or chargers that have not been approved by Research In Motion might present a risk of fire or explosion, which could cause serious harm, death, or property loss. Use only RIM approved holsters. Use of holsters that have not been approved by RIM might, in the long term, present a risk of serious harm.
	When you wear the BlackBerry device close to your body, use a RIM approved holster with an integrated belt clip, or maintain a distance of 0.59 in. (15 mm) between your BlackBerry device and your body while the BlackBerry device is transmitting. Use of body-worn accessories, other than RIM approved holsters with an integrated belt clip, might cause your BlackBerry device to exceed radio frequency exposure standards if the accessories are worn on your body while the BlackBerry device is transmitting. The long term effects of exceeding radio frequency exposure standards might present a risk of serious harm. For more information about the compliance of this BlackBerry device with the FCC radio frequency emission guidelines, visit www.fcc.gov/oet/ea/fccid and search for the FCC ID for your BlackBerry device listed below. The FCC ID is located on the information sticker on your BlackBerry device behind the battery. To view the FCC ID, remove the battery door and the battery. • BlackBerry Z10 device (model number RFG81UW): FCC ID L6ARFG80UW
	Your BlackBerry device is designed to be operated in temperatures between 32 and 95°F (0 and 35°C). Use of your BlackBerry device outside of the recommended temperature range could cause damage to your BlackBerry device or lithium-ion battery.
	Do not rely on your BlackBerry device for emergency communications. The wireless networks that are necessary to make emergency calls or send messages are not available in all areas, and emergency numbers, such as 911, 112, or 999, might not connect you to emergency services in all areas. If you have the BlackBerry Mobile Voice System installed on your BlackBerry device, see the "About emergency calls and the BlackBerry Mobile Voice System" section for more information about emergency calls.
	Do not disassemble your BlackBerry device. Your BlackBerry device contains small parts that might be a choking hazard.
	Keep your BlackBerry device away from medical devices, including pacemakers and hearing aids, because they might malfunction and cause serious harm or death to you or others.
	Do not put your BlackBerry device in contact with liquids because this might cause a short circuit, a fire, or an electric shock.
	When you use your BlackBerry device speakerphone, never hold the BlackBerry device to your ear. Serious and permanent hearing damage could occur.
	Exposure to flashing lights on your BlackBerry device can cause epileptic seizures or blackouts and might be dangerous to you or others. In the event that you experience, or your use of your BlackBerry device causes in others, any disorientation, loss of awareness, twitching, convulsions, or any involuntary movements, stop using your BlackBerry device immediately and consult a physician. The LED notification light is located on the front of your BlackBerry device, in the upper-right corner. If your BlackBerry device model has a camera, the camera flash LED aperture is located on the back of your BlackBerry device, either above or to the right of the camera lens. If you are susceptible to epileptic seizures or blackouts, consult your physician before you use your BlackBerry device.
	Do not use your BlackBerry device while driving unless you are permitted by law to use the BlackBerry device in hands-free mode. Using your BlackBerry device while driving could put you and others at greater risk of an accident causing serious injury, death, or property loss.
	Do not use your BlackBerry device in the presence of gas fumes because it might present a risk of fire or explosion.
	Do not dispose of your BlackBerry device in a fire because this might cause an explosion resulting in serious injury, death, or property loss.
	Turn off your BlackBerry device on aircrafts. Using your BlackBerry device on an aircraft might affect aircraft instrumentation, communication, and performance; might disrupt the network; might otherwise be dangerous to the operation of the aircraft, its crew, and its passengers; and might be illegal.
	BlackBerry devices are not intrinsically safe and cannot be used in the presence of explosive fumes, explosive dust, or other explosive chemicals. Sparks in such areas could cause an explosion or fire resulting in serious injury, death, or damage to property.

Using your device safely

- Do not place heavy objects on your BlackBerry device.
- Do not attempt to modify or service your BlackBerry device.
- Do not attempt to cover or push objects into openings on your BlackBerry device unless instructed to do so in the BlackBerry device documentation supplied by Research In Motion. This action might cause a short circuit, a fire, or an electric shock.
- Do not use sharp objects on the screen.
- Do not use excessive force on the screen.
- Do not use your BlackBerry device or BlackBerry device accessories near water (for example, near a bathtub or a sink, in a wet basement, or near a swimming pool).
- Do not place your BlackBerry device or BlackBerry device accessories on any unstable surface. The BlackBerry device or BlackBerry device accessories could fall, thereby potentially causing serious injury to a person and serious damage to the BlackBerry device or BlackBerry device accessory.
- When using your BlackBerry device, take frequent breaks. If you experience any discomfort in your neck, shoulders, arms, wrists, hands (including thumbs and fingers), or other parts of the body when using your BlackBerry device, cease use immediately. If discomfort persists, consult a physician.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

Electrical safety

Charge the BlackBerry device using only the charging accessories provided by or specifically approved by Research In Motion for use with this BlackBerry device. Any approval from RIM under this document must be in writing and must be from a person authorized to provide such approval. Use of any other accessory might invalidate any warranty provided with the BlackBerry device and might be dangerous.

Approved charging accessory models for the BlackBerry Z10 device		
ASY-18072-002	ASY-24479-009	ASY-34725-002
ASY-24479-002	ASY-24479-010	ASY-34725-003
ASY-24479-003	ASY-24479-011	ASY-38170-003
ASY-24479-004	ASY-24479-012	ASY-46705-001
ASY-24479-005	ASY-28109-003	ASY-46706-001
ASY-24479-006	ASY-31296-003	ASY-48415-001
ASY-24479-007	ASY-34724-001	ASY-50255-001
ASY-24479-008		

Use the charging accessories provided with the BlackBerry device or any other RIM approved charging accessories only from the type of power source indicated on the marking label. Before you use any power supply, verify that the mains voltage is in accordance with the voltage printed on the power supply. Connect the BlackBerry device only to CTIA certified adapters, products that bear the USB-IF logo, or products that have completed the USB-IF compliance program.

Do not overload power outlets, extension cords, or convenience receptacles because this might result in a risk of fire or electric shock. To reduce the risk of damage to the cord or the plug, pull the plug rather than the cord when you disconnect the charging accessory from the power outlet or convenience receptacle.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where the power cord connects to the BlackBerry device. Unplug charging accessories during lightning storms or when unused for long periods of time. When you use your BlackBerry device with any charging accessories, ensure that you route the power cord in a way that reduces the risk of injury to others, such as tripping or choking. Do not use charging accessories outside or in any area exposed to the elements.

For more information about inserting the battery and connecting the power supply, see the documentation that came with your BlackBerry device.

To buy accessories for your BlackBerry device, contact your wireless service provider or visit www.shopblackberry.com.

Battery safety

Your BlackBerry device contains a removable lithium-ion battery.

The battery might present a fire or chemical burn hazard if mistreated. Do not attempt to insert foreign objects into the battery. Do not remanufacture, disassemble, modify, crush, or puncture the battery. If the battery has been remanufactured, disassembled, modified, crushed, or punctured, cease use of the battery immediately. Do not heat the battery above 140°F (60°C). Heating the battery above 140°F (60°C) could cause the battery to catch fire or explode. Do not short-circuit the battery or allow metallic or conductive objects to contact the battery terminals.

CAUTION: Use only the battery that Research In Motion specifies for use with your particular BlackBerry device model. RIM specifies batteries for use in BlackBerry devices in compliance with IEEE Std 1725. Using any other battery might invalidate any warranty provided with the BlackBerry device. In addition, there might be a risk of fire or explosion if you replace the battery with an incorrect battery type. Please ensure you dispose of used batteries according to the instructions set out in this safety information booklet.

Children should not handle batteries unless they are supervised by an adult.

When this icon appears on your BlackBerry device, the battery is not inserted correctly or an invalid battery is inserted. If you inserted the battery that is specified for use with your particular BlackBerry device model, remove and reinsert the battery. If you inserted an invalid battery, remove it immediately and insert the battery that RIM specifies for use with your particular BlackBerry device model. Verify that the battery connectors align with the connectors on your BlackBerry device.

Driving and walking safely

Give your full attention to driving; driving safely is your first responsibility. You are responsible for knowing and obeying the laws and regulations regarding the use of wireless devices in the areas where you drive.

Research In Motion recommends that you do not use your BlackBerry device while you drive. Instead, consider having a passenger in the vehicle use your BlackBerry device for you, or find a safe location to stop your vehicle before you use your BlackBerry device.

Store your BlackBerry device safely before driving your vehicle. Do not use any charging accessory as a means of storing your BlackBerry device while you are in a vehicle. If your vehicle is equipped with an air bag, do not place your BlackBerry device or other objects above the air bag, or in the air bag deployment area. If in-vehicle wireless equipment is improperly stored or installed and the air bag inflates, serious injury could result.

Radio frequency signals might affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. If any equipment has been added to your vehicle, you should also consult the manufacturer of that equipment for information on radio frequency signals.

Do not use your BlackBerry device while walking or engaging in any activity that requires your full attention. Inattention to vehicular traffic or other pedestrian hazards could result in serious injury, death, or property loss.

Accessories

Use only those accessories approved by Research In Motion. Using any accessories not approved by RIM for use with this particular BlackBerry device model might invalidate any approval or warranty applicable to the BlackBerry device, might result in the BlackBerry device becoming inoperative, and might be dangerous.

Carrying solutions: Your BlackBerry device might not come with a holster (body-worn accessory). If you wear your BlackBerry device on your body, always put your BlackBerry device in a BlackBerry device holster equipped with an integrated belt clip supplied or approved by Research In Motion. If you do not use a holster equipped with an integrated belt clip supplied or approved by RIM when you carry your BlackBerry device, keep your BlackBerry device at least 0.59 in. (15 mm) from your body when the BlackBerry device is transmitting. When using any data feature of your BlackBerry device (for example, email messages, PIN messages, MMS messages, or browser service), with or without a USB cable, hold your BlackBerry device at least 0.59 in. (15 mm) from your body. Using accessories that are not supplied by or approved by RIM might cause your BlackBerry device to exceed radio frequency exposure guidelines. For more information about radio frequency exposure, see the "Compliance information" section of this guide.

Most BlackBerry carrying solutions for BlackBerry devices (for example, holsters, totes, and pouches) incorporate a magnet into the physical structure of the carrying solution. Do not place items containing magnetic strip components, such as debit cards, credit cards, hotel key cards, phone cards, or similar items, near BlackBerry carrying solutions that incorporate a magnet into the physical structure of the carrying solution. The magnet might damage or erase the data stored on the magnetic strip.

Magnetometer

Your BlackBerry device includes a magnetometer. The magnetometer is used by applications such as the Compass application. Magnets-or devices that contain magnets, such as holsters, headphones, or monitors-might negatively affect the accuracy of the magnetometer. Do not rely solely on applications that use the magnetometer to determine your location. In an emergency situation, do not rely solely on applications that use the magnetometer.

Media

Certain jurisdictions might prohibit or restrict your use of certain features on your BlackBerry device. When taking, processing, or using pictures, obey all laws, regulations, procedures, and policies, including, without limitation, any copyright, personal privacy, trade secret, or security laws which might govern or restrict you while using your BlackBerry device. Honor the personal rights of others. Copyright protections might prevent you from copying, modifying, transferring, or forwarding some pictures, music (including ring tones), or other content.

Audio files: Permanent hearing loss might occur if you listen to audio files at high volumes, particularly with headphones. Avoid increasing the volume of your headphones to block out noisy surroundings. If you experience ringing in your ears or muffled speech, consult a physician to have your hearing checked.

Camera: If your BlackBerry device has a camera, do not aim the camera directly at the sun or any other bright light. This action could cause serious damage to your eyes or damage your BlackBerry device. When using the camera flash, keep the camera flash LED aperture at least 19.69 in. (50 cm) from the subject's eyes.

Antenna

Use only the supplied integrated antenna. Unauthorized antenna modifications or attachments could damage the BlackBerry device and might violate U.S. Federal Communications Commission (FCC) regulations.

Interference with electronic equipment

Most modern electronic equipment is shielded from radio frequency signals. However, certain electronic equipment might not be shielded against the radio frequency signals from your BlackBerry device.

Pacemakers: Consult a physician or the manufacturer of your pacemaker if you have any questions regarding the effect of radio frequency signals on your pacemaker. Verify that you are using your BlackBerry device in accordance with the safety requirements associated with your particular pacemaker, which might include the following requirements:

- Always keep your BlackBerry device more than 7.88 inches (20 cm) from the pacemaker when your BlackBerry device is turned on.
- Do not carry your BlackBerry device in your breast pocket.
- When using the phone on your BlackBerry device, use the ear opposite the pacemaker for making and receiving calls to minimize the potential interference.
- If you have any reason to suspect that interference is taking place, turn off all wireless connections on your BlackBerry device immediately. Stop using your BlackBerry device and consult a physician.

Hearing aids: Some digital wireless devices might interfere with some hearing aids. In the event of such interference, consult your wireless service provider or contact the manufacturer of your hearing aid to discuss alternatives.

Your BlackBerry device includes a magnetometer, which is used by applications such as the Compass application. If an application that uses the magnetometer causes interference with your hearing aid, close the application.

Other medical devices: If you use any other personal medical device, consult the manufacturer of your device to determine if the device is adequately shielded from external radio frequency energy. Your physician might be able to assist you in obtaining this information.

Health care facilities: Turn off all wireless connections on your BlackBerry device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities might be using equipment that could be sensitive to external radio frequency energy.

Aircraft: Federal Aviation Administration (FAA) and Federal Communications Commission (FCC) regulations prohibit using the radio of wireless devices while in the air. Turn off all wireless connections on your BlackBerry device before boarding an aircraft. The effect of using the BlackBerry device with wireless connections turned on in an aircraft is unknown. Such use might affect aircraft instrumentation, communication, and performance, might disrupt the network, might otherwise be dangerous to the operation of the aircraft, and might be illegal. With all wireless connections on your BlackBerry device turned off, use only nonradio based device applications in accordance with airline regulations for electronic devices.

Dangerous areas

Your BlackBerry device is not an intrinsically safe device and is not suitable for use in hazardous environments, where intrinsically safe devices are required, including without limitation, in the presence of gas fumes, explosive dust situations, operation of nuclear facilities, aircraft navigation or communication services, air traffic control, and life support or weapons systems.

Potentially explosive atmospheres: If you are in any area with a potentially explosive atmosphere, turn off all wireless connections on your BlackBerry device and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gasoline or petrol stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas, such as propane or butane; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Do not use the phone on your BlackBerry device to report a gas leak in the vicinity of the leak. Leave the area and, if the phone is available and active on your BlackBerry device, make the call from a safe location.

Blasting areas: When in a "blasting area" or an area that indicates that two-way radios should be turned off, to avoid interfering with blasting operations, turn off all wireless connections on your BlackBerry device and obey all signs and instructions.

Operating and storage temperatures

Your BlackBerry device and device travel charger are designed to be operated and stored within the temperatures outlined in the following table:

Device operating	32 to 95°F (0 to 35°C)
Device storage	-4 to 95°F (-20 to 35°C)
Travel charger operating	32 to 95°F (0 to 35°C)
Travel charger storage	-22 to 167°F (-30 to 75°C)

Use or storage of your BlackBerry device or BlackBerry device accessories outside of the recommended temperature ranges could cause damage to your BlackBerry device, BlackBerry device accessories, or lithium-ion battery.

Keep your BlackBerry device or BlackBerry device accessories away from heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. If you are not going to use your BlackBerry device for more than two weeks, turn off the BlackBerry device power and remove the battery.

Device cleaning and repair

Cleaning: Do not use liquid, aerosol cleaners, or solvents on or near your BlackBerry device or BlackBerry device accessories. Clean only with a soft dry cloth. Disconnect any cables from the computer and unplug any charging accessories from the electrical outlet before cleaning either your BlackBerry device or the charging accessory.

If it is necessary to clean the battery cover on your BlackBerry device, remove the battery cover carefully and keep your BlackBerry device away from all liquids. Clean the battery cover with a soft cloth that is dampened with water and mild liquid detergent. Verify that the battery cover is completely dry before you put it back on your BlackBerry device.

Repair: Do not attempt to disassemble your BlackBerry device or any charging accessory. Only qualified service personnel should perform repairs to your BlackBerry device. If any of the following situations occur, disconnect the power supply cables from the computer or electrical outlet and refer your BlackBerry device or charging accessory for service to qualified service personnel:

- The power supply cord, plug, or connector is damaged.
- Liquid has been spilled or objects have fallen into the BlackBerry device or charging accessory.
- The BlackBerry device or charging accessory has been exposed to rain or water.
- The BlackBerry device or charging accessory becomes very hot to the touch.
- The BlackBerry device or charging accessory has been dropped or damaged in any way.
- The BlackBerry device or charging accessory does not operate normally by following the instructions in the user documentation.
- The BlackBerry device or charging accessory exhibits a distinct change in performance.

To reduce the risk of fire or electric shock, adjust only those controls that are covered in the user documentation for your BlackBerry device. An improper adjustment of other controls might cause damage and will often require extensive work by a qualified technician to restore your BlackBerry device, charging accessory, or any other accessory to normal operation.

Failure to observe all safety instructions contained in the user documentation for your BlackBerry device will void the Limited Warranty and might lead to suspension or denial of services to the offender, legal action, or both.

Device and battery disposal

Do not dispose of either your BlackBerry device or the battery in a fire.

Your BlackBerry device should not be placed in household waste bins.

For information about returning your device and accessories to Research In Motion for recycling and safe disposal, from a browser on your computer, visit www.blackberry.com/recycling or https://tradeup.blackberry.com. The recycling and trade-up programs are only available in certain areas.

If these programs are not offered in your area, check with your local government for regulations regarding the proper disposal of electronic products.

Dispose of the battery in accordance with the laws and regulations in your area governing disposal of such cell types.

About emergency calls and the BlackBerry Mobile Voice System

If you have the BlackBerry Mobile Voice System installed on your BlackBerry device, the following statements are applicable to you:

Emergency calls to 911, 112, 000, 999, or other internationally recognized numbers intended to connect to a public safety answering point or similar emergency services are not processed through the BlackBerry Mobile Voice System, and are only processed from your BlackBerry device where mobile network coverage is available from a wireless service provider. The BlackBerry MVS is not designed or intended to be a replacement for traditional telephone service. Additional arrangements must be made, separate from the BlackBerry MVS, for you to obtain access to traditional fixed or wireless telephone services, such as emergency calling capability. RIM and its affiliates, and their respective officers, directors, and employees shall have no responsibility or liability whatsoever for any personal injury, death, or damages arising out of or in connection with the inability to access emergency call services (for example, 911, 112, 000, or 999) through the BlackBerry MVS. By using the BlackBerry MVS Client, you agree to the above. If you do not agree to the above, remove the BlackBerry MVS Client from your device.

Compliance information

Exposure to radio frequency signals

The BlackBerry device radio is a low power radio transmitter and receiver. When the BlackBerry device radio is turned on, it receives and also sends out radio frequency signals. The BlackBerry device is designed to comply with Federal Communications Commission (FCC), Ministry of Internal Affairs and Communications (MIC), and Industry Canada (IC) guidelines respecting safety levels of radio frequency exposure for wireless devices, which in turn are consistent with the following safety standards previously set by Canadian, U.S., and international standards bodies:

- ANSI/IEEE C95.1, 2005, American National Standards Institute/Institute of Electrical and Electronics Engineers Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
- National Council on Radiation Protection and Measurements (NCRP) Report 86, 1986, Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields
- Health Canada, Safety Code 6, 2009, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
- EN 50360, 2001+A1:2012, Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz to 3 GHz)
- International Commission on Non-Ionizing Radiation Protection (ICNIRP), 2009, Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic fields (up to 300 GHz)
- Official Journal of the European Union (OJEU), 1999, Council Recommendation of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)
- MIC, 2001, Article 14-2 of the Ordinance for Regulating Radio Equipment

To maintain compliance with FCC, IC, MIC, and EU radio frequency exposure guidelines when you carry the BlackBerry device on your body, use only accessories equipped with an integrated belt clip that are supplied or approved by Research In Motion. Use of accessories that are not expressly approved by RIM might violate FCC, IC, and EU radio frequency exposure guidelines and might void any warranty applicable to the BlackBerry device. If you do not use a body-worn accessory equipped with an integrated belt clip supplied or approved by RIM when you carry the BlackBerry device, keep the BlackBerry device at least 0.59 in. (15 mm) from your body when the BlackBerry device is transmitting. When using any data feature of the BlackBerry device, with or without a USB cable, hold the BlackBerry device at least 0.59 in. (15 mm) from your body. If you use a body-worn accessory not supplied by RIM when you carry the BlackBerry device, verify that the accessory does not contain metal and keep the BlackBerry device at least 0.59 in. (15 mm) from your body when the BlackBerry device is transmitting.

To reduce radio frequency exposure consider these safety guidelines:

- Use the BlackBerry device in areas where there is a strong wireless signal. The indicator that provides information about the strength of the wireless signal is located in the upper-right corner of the home screen and displays five ascending bars. Three or more bars indicate a strong signal. A reduced signal display, which might occur in areas such as an underground parking structure or if you are traveling by train or car, might indicate increased power output from your BlackBerry device as it attempts to connect to a weak signal.
- Use hands-free operation if it is available and keep the BlackBerry device at least 0.59 in. (15 mm) from your body (including the abdomen of pregnant women and the lower abdomen of teenagers) when the BlackBerry device is turned on and connected to the wireless network. For more information about carrying your BlackBerry device, see the holster information in the "Accessories" section of this document.
- Reduce the amount of time spent on calls, or send a text message or BBM message instead.

Specific absorption rate data

THIS WIRELESS DEVICE MODEL MEETS GOVERNMENT REQUIREMENTS FOR EXPOSURE TO RADIO WAVES WHEN USED AS DIRECTED IN THIS SECTION.

The BlackBerry device is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government, Industry Canada of the Canadian Government (IC), and recommended by The Council of the European Union when used as directed in the previous section. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC/IC is 1.6W/kg*. The SAR limit recommended by The Council of the European Union is 2.0W/kg**. Tests for SAR are conducted using standard operating positions specified by the FCC/IC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a wireless device model is available for sale to the public, it must be tested and certified to the FCC, IC, and The Council of the European Union that it does not exceed the limit established by the government-adopted requirement for safe exposure under the recommendations of the International Commission on Non-Ionizing Radiation Protection (ICNIRP). The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC, IC, and The Council of the European Union for each model.

The highest SAR value for your BlackBerry device model when tested for use at the ear is outlined as follows:

Device	SAR (W/kg) for 1 g (FCC/IC)	SAR (W/kg) for 1 g (India)	SAR (W/kg) for 10 g (R&TTE)
BlackBerry Z10 device (model number RFG81UW)	0.97	1.09	1.02

The highest reported body SAR value for this BlackBerry device when clipped on a belt, in a Research In Motion approved holster equipped with an integrated belt clip, is outlined below. Carrying solutions, including RIM approved carrying solutions and carrying solutions not approved by RIM, that do not come equipped with an integrated belt clip SHOULD NOT be worn or carried on the body. For more information regarding the wearing or carrying of this BlackBerry device without using a RIM approved carrying solution equipped with an integrated belt clip, see the holster information in the "Accessories" section of this document.

Device	SAR (W/kg) for 1 g (FCC/IC)	SAR (W/kg) for 1 g (India)	SAR (W/kg) for 10 g (R&TTE)
BlackBerry Z10 device (model number RFG81UW)	0.84	0.73	0.72

If your BlackBerry device operates in Mobile Hotspot mode, the highest reported body SAR value for this BlackBerry device when clipped on a belt, in a Research In Motion approved holster equipped with an integrated belt clip, is outlined below.

Device	SAR (W/kg) for 1 g (FCC)
BlackBerry Z10 device (model number RFG81UW)	1.39

Body-worn measurements differ among wireless device and phone models, depending upon available accessories and FCC, IC, and The Council of the European Union requirements.

The FCC has granted an Equipment Authorization for this wireless device model with all reported SAR levels evaluated as in compliance with the FCC radio frequency emission guidelines when the BlackBerry device is used as directed in this section. SAR information on this wireless device model is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea after searching for the FCC ID for your BlackBerry device listed below.

Device	FCC ID
BlackBerry Z10 device (model number RFG81UW)	L6ARFG80UW

Additional information on SAR can be found on the CTIA - The Wireless Association website at www.ctia.org. In Japan, additional information on SAR can be found on the Association of Radio Industries and Businesses (ARIB) website at www.arib-emf.org/index.html, or on the Telecommunications Bureau of the Ministry of Internal Affairs and Communications (MIC) website at www.tele.soumu.go.jp/e/index.htm.

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* In the United States and Canada, the SAR limit for mobile devices used by the public is 1.6W/kg averaged over 1 g of tissue for the body or head (4.0W/kg averaged over 10 g of tissue for the extremities - hands, wrists, ankles, and feet).

** In Europe, the SAR limit for mobile devices used by the public is 2.0W/kg averaged over 10 g of tissue for the body or head (4.0W/kg averaged over 10 g of tissue for the extremities - hands, wrists, ankles, and feet). Studies suggest that the standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

FCC compliance statement (United States)

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications.

There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning on and turning off the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

US Information Concerning the Federal Communications Commission ("FCC") Requirements for Hearing Aid Compatibility with Wireless Devices

When wireless devices are used near hearing devices (such as hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference, and wireless devices also vary in the amount of interference that they generate.

The wireless telephone industry has developed ratings to assist hearing device users in finding wireless devices that may be compatible with their hearing devices. Not all wireless devices have been rated. Wireless devices that are rated will have the rating displayed on the box together with other relevant approval markings.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device is vulnerable to interference, you may not be able to use a rated wireless device successfully.

Consulting with your hearing health professional and testing the wireless device with your hearing device is the best way to evaluate it for your personal needs.

This BlackBerry device has been tested and rated for use with hearing aids for some of the wireless technologies that the BlackBerry device uses. However, other wireless technologies may be used in this BlackBerry device that have not been tested for use with hearing aids. It is important to try the different features of your BlackBerry device thoroughly and in different locations to determine if you hear any interfering noise when using this BlackBerry device with your hearing aid or cochlear implant. Consult your wireless service provider about its return and exchange policies and for information about hearing aid compatibility.

How the ratings work

M-Ratings: Wireless devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than wireless devices that are not labeled. M4 is the better or higher of the two ratings.

T-Ratings: Wireless devices rated T3 or T4 meet FCC requirements and are likely to be more usable with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated wireless devices. T4 is the better or higher of the two ratings. (Note that not all hearing devices have telecoils in them.)

Hearing devices may also be measured for immunity to this type of interference. Your hearing device manufacturer or hearing health professional may help you find results for your hearing device. The more immune your hearing aid is, the less likely you are to experience interference noise from wireless devices.

For more information about the actions that the FCC has taken with regard to hearing aid compatibility with wireless devices and other steps that the FCC has taken to ensure that individuals with disabilities have access to telecommunications services, visit www.fcc.gov/cgb/dro.

Industry Canada certification

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

The BlackBerry Z10 device (model number RFG81UW) complies with Industry Canada RSS 102, RSS 132, RSS 133, RSS-GEN, and RSS 210 under certification number 2503A-RFG80UW.

The BlackBerry device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain permitted for BlackBerry devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the EIRP limit.

The maximum antenna gain permitted for BlackBerry devices in the band 5725-5825 MHz shall comply with the EIRP limits specified for point-to-point and non point-to-point operation as appropriate.

Be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Class B compliance

This BlackBerry device complies with the Class B limits for radio noise emissions as set out in the interference-causing equipment standard entitled "Information Technology Equipment (ITE) – Limits and methods of measurement," ICES-003 of Industry Canada.

EU regulatory conformance

Research In Motion hereby declares that this BlackBerry device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Device	Applicable CE marking
BlackBerry Z10 device	CE0168 !

The Declaration of Conformity made under Directive 1999/5/EC (HG nr.88/2003) is available for viewing at the following location in the EU community: www.blackberry.com/go/declarationofconformity.

Research In Motion UK Limited
200 Bath Road
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United Kingdom

If you have a Wi-Fi enabled BlackBerry device, your BlackBerry device may be operated on Wi-Fi networks in all European Union member countries. This equipment may be operated in Turkey.

The Official Journal of the European Union Commission Decision of 12 February 2007 states that in the frequency band 5.150 to 5.350 GHz, wireless access systems (WAS), including radio local area networks (RLANs), shall be restricted to indoor use. Since the creation of a network is within the domain of the wireless access point and the access point is a master device, the BlackBerry device never initiates the creation of a network or attaches to a network in ad-hoc mode in the 5.150 to 5.350 GHz frequency band.

Additional regulatory conformance

Specific details about compliance to the following standards and regulatory bodies for your BlackBerry device may be obtained from Research In Motion:

Device	Applicable conformance information
BlackBerry Z10 device	• PCS Type Certification Review Board (PTCRB) • Radio and Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC • Global Certification Forum Certification Criteria (GCF CC) requirements

For additional Type Approval information please view the Regulatory Approvals drop-down list on the About screen on your device.

Product information: BlackBerry Z10 device

Mechanical properties:

- Weight: approximately 4.8 oz (135.4 g) including lithium-ion cell battery
- Size (L x W x H): 5.1 x 2.6 x 0.4 in. (130 x 65.6 x 9 mm)
- 2 GB RAM, 16 GB flash memory, 64 GB micro SD card slot

Power specifications:

- Removable, rechargeable lithium-ion cell battery
- Supports 3V, 1.8V micro SIM cards
- Micro-USB-compatible port for data synchronization and charging

Mobile network radio specifications:

- Quad-band HSPA+ support: UMTS 850, UMTS 900, UMTS 1900, UMTS 2100 MHz band
- Quad-band GSM support: GSM 850, GSM 900, DCS 1800, PCS 1900 MHz
- Power class: Class 1 (DCS 1800, PCS 1900), Class 4 (GSM 850) as defined in GSM 5.05, Class 4 (GSM 900) as defined in GSM 02.06, Class E2 (GSM 850, GSM 900, DCS 1800, PCS 1900), Class 3 (UMTS)
- Transmitting frequency: GSM 824 to 849 MHz, GSM 880 to 915 MHz, DCS 1710 to 1785 MHz, PCS 1850 to 1910 MHz, IMT 1920 to 1980 MHz
- Receiving frequency: GSM 869 to 894 MHz, GSM 925 to 960 MHz, DCS 1805 to 1880 MHz, PCS 1930 to 1990 MHz, IMT 2110 to 2170 MHz

Wi-Fi network radio specifications:

- Wireless LAN standard: IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
- Transmitting and receiving frequency for IEEE 802.11b/IEEE 802.11g/IEEE 802.11n: 2.412 to 2.472 GHz
- Transmitting and receiving frequency for IEEE 802.11a/IEEE 802.11n: 5.180 to 5.825 GHz

Bluetooth radio specifications:

- Single-band support: ISM 2.4 GHz
- Transmitting and receiving frequency: 2402 to 2480 MHz
- Bluetooth Class 2

If your device supports NFC technology, the following specifications apply:

- Operating frequency: 13.56 MHz
- Supported modes: reader/writer, card emulation, peer-to-peer

Legal notice

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